

**Table B-20. Non-Federal R&D expenditures at historically black colleges and universities,
by source of funds and science and engineering field: fiscal years 1988-95**

[Dollars in thousands]

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Source and field	1995	1994	1993	1992	1991	1990	1989	1988
Total	34,409	36,878	34,162	32,153	28,081	25,651	24,180	17,820
Source of funds								
State and local governments	8,912	9,533	8,577	9,053	6,505	6,902	6,883	4,475
Industry	6,343	6,724	4,796	4,145	3,230	5,353	3,966	3,292
Institutional funds	15,969	17,187	17,716	14,977	14,062	11,442	12,086	8,392
All other sources	3,185	3,434	3,073	3,978	4,284	1,954	1,245	1,661
Field								
Engineering, total	4,958	5,160	5,248	4,699	4,594	1,783	2,521	2,149
Aeronautical and astronautical	150	133	0	0	0	0	103	28
Chemical	300	264	274	262	380	289	74	53
Civil	881	897	1,163	1,161	953	375	318	529
Electrical	1,015	1,135	579	698	960	464	857	557
Mechanical	953	1,201	1,546	1,675	868	308	321	260
Metallurgical and materials ¹	50	89	0	0	167	0	--	--
Other, n.e.c.	1,609	1,441	1,686	903	1,266	347	848	722
All sciences, total	29,451	31,718	28,914	27,454	23,487	23,868	21,659	15,671
Physical sciences	6,396	7,121	4,908	4,714	3,916	4,316	3,427	2,410
Astronomy	200	96	32	0	0	0	0	0
Chemistry	2,354	2,033	1,295	853	1,346	1,729	1,819	1,699
Physics	3,742	4,946	3,318	3,849	2,514	2,522	1,565	711
Other, n.e.c.	100	46	263	12	56	65	43	0
Environmental sciences	1,923	1,710	1,006	1,280	1,816	2,756	1,234	760
Atmospheric	512	496	478	455	438	520	259	0
Earth sciences	486	470	7	86	31	209	278	78
Oceanography	499	503	33	32	26	26	25	25
Other, n.e.c.	426	241	488	707	1,321	2,001	672	657
Mathematical sciences	707	661	2,355	1,559	952	337	242	56
Computer sciences	804	803	548	637	792	545	389	135
Life sciences	13,947	17,032	13,491	14,621	13,121	11,762	11,375	7,468
Agricultural sciences	7,001	6,588	6,216	5,013	5,049	4,469	3,724	1,109
Biological sciences	4,091	6,059	3,509	4,731	3,438	4,368	4,788	3,997
Medical sciences	1,859	3,157	2,761	2,957	3,454	2,425	2,122	2,357
Other, n.e.c.	996	1,228	1,005	1,920	1,180	500	741	5
Psychology	401	650	276	456	73	466	386	42
Social sciences	3,018	2,437	4,390	3,744	1,914	2,938	4,383	4,604
Economics	261	146	357	277	267	232	109	290
Political science	279	275	406	204	76	595	634	657
Sociology	972	1,052	954	991	885	1,387	1,231	1,874
Other, n.e.c.	1,506	964	2,673	2,272	686	724	2,409	1,783
Other sciences, n.e.c.	2,255	1,304	1,940	443	903	748	223	196

¹ Data for metallurgical and materials engineering were not collected separately prior to fiscal year 1990.

NOTE: Because of rounding, detail may not add to totals.

KEY: -- = not available
n.e.c. = not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1995